## **Vermont Public Service Board Standard Application Form to Rule 5.500**

PARALLEL TO THE ELECTRIC SYSTEM OF	F:(Name of Utility)
	( 1 1 1 1 7)
Shaded area to be completed by Interconnect	ing Utility
Interconnecting Utility's Address: Interconnecting Utility's Fax Number:	
Substation Circuit	Distribution Transmission
or transmission facility must submit an application accepted as complete when it provides all application fee that must be submitted to the Insection 1. Applicant Information  A. Legal Name of Interconnecting Applicant (contents)	,
Name:	
Mailing Address:	7in Code
City: State:	
Facility Location: Telephone (Daytime): () Fax Number:	(Facility E-911 address) (Alternate): ()
B. Alternative Contact Information (if different Contact Name:	
Telephone (Daytime): () Fax Number:	, ,
C. Will the Generation Resource be used for a To supply power to internal loads (other than to participate in the SPEED Standard Offer P	the station itself)?
D. For generators installed at locations with expension (Local Electric Service Provider*)	<del>-</del>
E. Additional Information Requested Point of Interconnection: Interconnection Applicant's requested in-serv	

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## Section 2. Generator Qualifications All data applicable only to the generator facility, NOT the necessary interconnection facilities Energy source: Solar Wind Hydro Diesel Natural Gas Fuel Oil Other\_ (state type) Type of Generator. ☐ Synchronous ☐ Induction ☐ Inverter (DC Generator or Solar) Generator Manufacturer: Generator Model Name & Number: Generator Nameplate Rating: \_\_\_\_\_kW (Total if multiple units) Generator Nameplate kVAR: \_\_\_\_\_\_ Applicant or Customer-Site Load: \_\_\_\_\_kW (if none, so state) Typical Reactive Load (if known)\_\_\_\_\_ Maximum Physical Export Capability Requested: kW Section 3. Generator Technical Information a. Induction or Synchronous Generators (for rotating machines) Rated Power Factor Leading: \_\_\_\_\_ Rated Power Factor Lagging: \_\_\_\_\_ List of Adjustable Set points for the protective equipment or software: \_\_\_\_\_\_ Direct Axis Transient Reactance, X'd: P.U. Direct Axis Subtransient Reactance, X"d: \_\_\_\_\_\_ P.U. Generator Saturation Constant (1.0): Generation Saturation Constant (1.2): Negative Sequence Reactance: \_\_\_\_\_\_ P.U. Zero Sequence Reactance: \_\_\_\_\_\_ P.U. kVA Base: \_ RPM Frequency: \*Field Volts \*Field Amperes \*Motoring Power (kW) \*Neutral Grounding Resistor (If Applicable) \_\_\_\_\_

\*Reactive Power Required In Vars (Full Load) \_\_\_\_\_\*

\*Total Rotating Inertia, H: \_\_\_\_\_ Per Unit on kVA Base

\*Reactive Power Required In Vars (No Load) \_\_\_\_\_

\*I22t or K (Heating Time Constant)

\*Rotor Reactance\*Magnetizing Reactance \_\_\_\_\_\*
Short Circuit Reactance \_\_\_\_\_

\*Temperature Rise

\*Rotor Resistance

\*Exciting Current \_\_\_\_\_

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\*Stator Resistance \*Stator Reactance

\*Frame Size \*Design Letter \_\_\_\_

b. For Wind Turbines		
Total Number of turbines to be intercor		on:
Height to blade tip:		
Quantity of Turbines	Size (KW) Each	
c. For Solar or DC sources		
Inverter Manufacturer, Model Name &		
Quantity of Inverters	_ Size KW Each	
Panel Manufacturer, Model Name & N	umber:	
Quantity of panels	Size (Watts) Each	
Inverters are UL1741 listed Ye	s 🗌 No	
<b>Section 4. Interconnection Equipme</b> Will a transformer (GSU) be used betweepoint of interconnection?		n over 20 KW) ☐ Yes ☐ No
Will the transformer be provided by Int	erconnection Applicant?	□Yes □ No
Is the Transformer three phase?		□Yes □ No
Is the Transformer pad mounted or Po	le mounted?	☐Pad ☐ Pole
Transformer Size: kVA	Impedance: % on	kVA Base
Interconnection Voltage (GSU Data) Transformer Primary: Volts Transformer Secondary: Volt Other Transformer information	s 🗌 Single Phase 🔲 Delta 🗀	
Interconnecting Circuit Breaker (if appl	licable):	
Manufacturer: Type:	•	unting Rating
Trip Speed:	2000 (1000)	apung raung
Current Transformer (CT) Data (if appl	licable):	
Manufacturer: Type: _	Accuracy Class:	Ratio:
Potential Transformer Data (if applicate	ole):	
Manufacturer: Type: _	-	Ratio:
Section 5. General Site Information a. Enclose copy of site electrical O		
schemes.	rrent and potential circuits, and post be signed and stamped by a lice	

- [Note: This one-line diagram must be signed and stamped by a licensed Professional Engineer if the generating facility is larger than 150 kW.]
- b. Enclose copy of any site documentation that describes and details the operation of the protection and control schemes.
- c. Enclose copies of schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable).
- d. Enclose copy of any site documentation that indicates the precise physical location of the proposed generating facility (e.g. USGS topographic map or other diagram).

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Section 6. Check List: Required Fee and Enclosures
Is an application fee enclosed?   Yes
Are One-Line Diagrams enclosed?
Is site documentation enclosed?
Are schematic drawings enclosed? ☐ Yes ☐ No
Are site maps enclosed?
Section 7. Applicant Signature
I hereby certify that, to the best of my knowledge, all the information provided in the
Interconnection Application is true and correct.
Signature of Applicant: Date:

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